Fig. 8

20 Wheel

51 Reduction mechanism

50 Motor

5   50a Encoder (traveling speed detecting means)

70 Control section

71 Pressure-sensitive sensor (leaned state detecting means)

60 Battery

80 Operation switch

10 Power off

Stop/standby

Low speed

Intermediate speed

High speed

15 80a Switch control circuit

Fig. 11

102 Remaining battery amount detection circuit

104 Information management portion

20 101 State management portion

103 Information input portion

Score information

Course information

106 Display control section

25 105 Display

109 Voice transmission control section

110 Voice synthesis portion

107 Amplifier

108 Loudspeaker

112 Panel control portion

111 Operation panel

5 Fig. 12

104 Information management portion

101 State management portion

117 Input/output control section

114 RF module

10 113 Personal digital assistant

116 USB interface

115 PC

106 Display control section

105 Display

15 109 Voice transmission control section

110 Voice synthesis portion

107 Amplifier

108 Loudspeaker

112 Panel control portion

20 111 Operation panel

Fig. 16

20 Wheel

51 Reduction mechanism

25 50 Motor

50a Encoder (traveling speed detecting means)

60 Battery

70 Control section

70e Amplifier

70d Brake means

70c Motor driver

70b Regulator

5 70a CPU

70f Memory

71 Pressure-sensitive sensor (leaned state detecting means)

Fig. 17

10 Target traveling speed

Traveling speed detected by traveling speed detecting means

Fig. 18

Maximum ON duty

15 Upper limit of ON duty

Target traveling speed

Fig. 19

S1 Initialization

20 Target traveling speed = 0

Upper limit of torque of motor = 0

S2 Detection of traveling speed started

S3 Detection of leaned state started

S4 System failure?

25 S5 Processing of stopping

S6 Current target traveling speed < Current traveling speed?

S7 Increase target traveling speed by one stage

S8 Raise upper limit of torque of motor

S9 Current target traveling speed > Current traveling speed?

S10 Lower target traveling speed by one stage

S11 Lower upper limit of torque of motor

S12 Leaned state good?

5 S13 Target traveling speed = 0?